











# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

<b>Title of Invention</b>	<b>SINGLE-DIRECTION CEMENTING PLUG</b>																																																																																																								
<p>Application Number : 10/767322 </p> <p>Confirmation Number: 5490</p> <p>First Named Applicant: RICHARD GIROUX</p> <p>Attorney Docket Number: WEAT/0343</p> <p>Art Unit: 3672</p> <p>Examiner:</p> <p>Search string: ( 2228503 or 2370832 or 3006415 or 3054100 or 3131769 or 3548936 or 4311195 or 5224540 or 5271468 or 5540279 or 5839515 or 5984007 ).pn</p>																																																																																																									
<p><b>US Patent Documents</b></p> <p><b>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>init</th> <th>Cite.No.</th> <th>Patent No.</th> <th>Date</th> <th>Patentee</th> <th>Kind</th> <th>Class</th> <th>Subclass</th> </tr> </thead> <tbody> <tr><td></td><td>1</td><td>2228503</td><td>1941-01-14</td><td>Boyd et al.</td><td></td><td></td><td></td></tr> <tr><td> </td><td>2</td><td>2370832</td><td>1945-03-06</td><td>Baker</td><td></td><td></td><td></td></tr> <tr><td> </td><td>3</td><td>3006415</td><td>1961-10-31</td><td>Burns et al.</td><td></td><td></td><td></td></tr> <tr><td> </td><td>4</td><td>3054100</td><td>1962-09-11</td><td>Jones</td><td></td><td></td><td></td></tr> <tr><td> </td><td>5</td><td>3131769</td><td>1964-05-05</td><td>Rochemont</td><td></td><td></td><td></td></tr> <tr><td> </td><td>6</td><td>3548936</td><td>1970-12-22</td><td>Kilgore et al.</td><td></td><td></td><td></td></tr> <tr><td> </td><td>7</td><td>4311195</td><td>1982-01-19</td><td>Mullins, II</td><td></td><td></td><td></td></tr> <tr><td> </td><td>8</td><td>5224540</td><td>1993-07-06</td><td>Streich et al.</td><td></td><td></td><td></td></tr> <tr><td> </td><td>9</td><td>5271468</td><td>1993-12-21</td><td>Streich et al.</td><td></td><td></td><td></td></tr> <tr><td> </td><td>10</td><td>5540279</td><td>1996-07-30</td><td>Branch et al.</td><td></td><td></td><td></td></tr> <tr><td> </td><td>11</td><td>5839515</td><td>1998-11-24</td><td>Yuan et al.</td><td></td><td></td><td></td></tr> <tr><td></td><td>12</td><td>5984007</td><td>1999-11-16</td><td>Yuan et al.</td><td></td><td></td><td></td></tr> </tbody> </table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	2228503	1941-01-14	Boyd et al.					2	2370832	1945-03-06	Baker					3	3006415	1961-10-31	Burns et al.					4	3054100	1962-09-11	Jones					5	3131769	1964-05-05	Rochemont					6	3548936	1970-12-22	Kilgore et al.					7	4311195	1982-01-19	Mullins, II					8	5224540	1993-07-06	Streich et al.					9	5271468	1993-12-21	Streich et al.					10	5540279	1996-07-30	Branch et al.					11	5839515	1998-11-24	Yuan et al.					12	5984007	1999-11-16	Yuan et al.			
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass																																																																																																		
	1	2228503	1941-01-14	Boyd et al.																																																																																																					
	2	2370832	1945-03-06	Baker																																																																																																					
	3	3006415	1961-10-31	Burns et al.																																																																																																					
	4	3054100	1962-09-11	Jones																																																																																																					
	5	3131769	1964-05-05	Rochemont																																																																																																					
	6	3548936	1970-12-22	Kilgore et al.																																																																																																					
	7	4311195	1982-01-19	Mullins, II																																																																																																					
	8	5224540	1993-07-06	Streich et al.																																																																																																					
	9	5271468	1993-12-21	Streich et al.																																																																																																					
	10	5540279	1996-07-30	Branch et al.																																																																																																					
	11	5839515	1998-11-24	Yuan et al.																																																																																																					
	12	5984007	1999-11-16	Yuan et al.																																																																																																					
<p><b>Signature</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Examiner Name</td> <td style="width: 50%; text-align: center;">Date</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">10/12/05</td> </tr> </table>		Examiner Name	Date		10/12/05																																																																																																				
Examiner Name	Date																																																																																																								
	10/12/05																																																																																																								

Please type a plus sign (+) inside this box →

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

JUN 07 2004

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

Application Number

10/767,322

Filing Date

January 29, 2004

First Named Inventor

Richard L. Giroux

Group Art Unit

Unknown

Examiner Name

Unknown

Attorney Docket Number

WEAT/0343

Submission Date

June 3, 2004

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>[Signature]</i>	A1	US-5,813,456	09-29-1998	Milner, et al.	
<i>[Signature]</i>	A2	US-5,542,473	08-06-1996	Pringle, et al.	
<i>[Signature]</i>	A3	US-4,427,063	01-24-1984	Skinner	
<i>[Signature]</i>	A4	US-3,419,079	12-31-1968	Current	
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			
	A12	US-			
	A13	US-			
	A14	US-			
	A15	US-			
	A16	US-			
	A17	US-			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B1					
	B2					
	B3					
	B4					
	B5					

Examiner

*[Signature]*

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Please type a plus sign (+) inside this box → +

PTO/SB/08b (08-03)

Approved for use through 06/30/2008. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

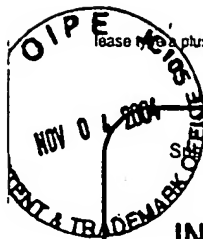
Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	10/767,322
				Filing Date	January 29, 2004
				First Named Inventor	Richard L. Giroux
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0343
				Submission Date	June 3, 2004
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
~		U.K. Search Report, Application No. GB 0402133.3, dated April 7, 2004	

Examiner	Date Considered 10/12/05
----------	--------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Please use a plus sign (+) inside this box



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 27

Application Number 10/767,322

Filing Date January 29, 2004

First Named Inventor Giroux et al.

Group Art Unit 3672

Examiner Name Unknown

Attorney Docket Number WEAT/0343

Submission Date November 2, 2004

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-6742606 B2	06/01/2004	Melcalfe, et al.	
	A2	US-6702040 B1	03/09/2004	Sensenig	
	A3	US-6668937	12/30/2003	Murray	
	A4	US6634430	10/21/2003	Dawson et al.	
	A5	US-6547017 B1	04/15/2003	Vail, III	
	A6	US-6543552 B1	04/08/2003	Melcalfe, et al.	
	A7	US-6536993 B2	03/25/2003	Strong, et al.	
	A8	US-6457532 B1	10/01/2002	Simpson	
	A9	US-6263987 B1	07/24/2001	Vail, III	
	A10	US-6216533 B1	04/17/2001	Woloson, et al.	
	A11	US-6189616 B1	02/20/2001	Gano, et al.	
	A12	US-6186233 B1	02/13/2001	Brunet	
	A13	US-6155360	12/05/2000	McLeod	
	A14	US-6135208	10/24/2000	Gano, et al.	
	A15	US-6098717	08/08/2000	Bailey et al.	
	A16	US-6070671	06/06/2000	Cumming et al.	
	A17	US-6035953	03/14/2000	Rear	
	A18	US-6024169	02/15/2000	Haugen	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B1	DE 3 213 464	10/13/1983	Reimer		
	B2	DE 4 133 802	10/22/1992	Andrejewski		
	B3	EP 0 235 105	09/02/1987	Kjell-Oue		
	B4	EP 0 265 344	04/27/1988	Legendre		
	B5	EP 0 462 618	12/27/1991	Karlsson		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for form 1449A/PTO

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

27

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Giroux et al.
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
	November 2, 2004

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A19	US-5887668	03/30/1999	Haugen et al.	
	A20	US-5887655	03/30/1999	Haugen, et al.	
	A21	US-5836409	11/17/1998	Vail, III	
	A22	US-5826651	10/27/1998	Lee, et al.	
	A23	US-5803666	09/08/1998	Keller	
	A24	US-5787978	08/04/1998	Carter, et al.	
	A25	US-5785132	07/28/1998	Richardson, et al.	
	A26	US-5717334	02/10/1998	Vail, III, et al.	
	A27	US-5706905	01/13/1998	Barr	
	A28	US-5615747	04/01/1997	Vail, III	
	A29	US-5575344	11/19/1996	Wireman	
	A30	US-5560440	10/01/1996	Tibbitts	
	A31	US-5553679	09/10/1996	Thorp	
	A32	US-5546317	10/10/1995	Hood, III, et al.	
	A33	US-5526880	06/18/1996	Jordan, Jr., et al.	
	A34	US-5520255	05/28/1996	Barr et al.	
	A35	US-5477925	12/26/1995	Trahan, et al.	
	A36	US-5458209	10/17/1995	Hayes, et al.	
	A37	US-5435400	07/25/1995	Smith	
	A38	US-5402856	04/04/1995	Warren, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B6	EP 0 554 568	08/11/1993	Tibbitts, et al.		
	B7	EP 0 961 007	12/06/1999	Gano, et al.		
	B8	EP 1 006 260	06/07/2000	Fincher, et al.		
	B9	GB 2 335 217	09/15/1999	Desai		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3

of 27

Application Number 10/767,322

Filing Date January 29, 2004

First Named Inventor Giroux et al.

Group Art Unit 3672

Examiner Name Unknown

Attorney Docket Number WEAT/0343

Submission Date November 2, 2004

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>m</i>	A39	US-5361859	11/08/1994	Tibbitts	
	A40	US-5322127	06/21/1991	McNair et al.	
	A41	US-5318122	06/07/1994	Murray, et al.	
	A42	US5181571	01/27/1993	Mueller	
	A43	US-5109924	05/05/1992	Jurgens, et al.	
	A44	US-5052483	10/01/1991	Hudson	
	A45	US-4904119	02/27/1990	Legendre, et al.	
	A46	US-4848469	07/18/1989	Baugh et al.	
	A47	US-4836299	06/06/1989	Bodine	
	A48	US-4825947	05/02/1989	Mikolajczyk	
	A49	US-4699224	10/13/1987	Burton	
	A50	US-4681158	07/21/1987	Pennison	
	A51	US-4620600	11/04/1986	Persson	
	A52	US-4604818	08/12/1996	Inoue	
	A53	US4595058	06/17/1986	Nations	
	A54	US-4515045	05/07/1985	Gnatchenko, et al.	
	A55	US-4489793	12/25/1984	Boren	
	A56	US-4483399	11/20/1984	Colgate	
<i>n</i>	A57	US-4466498	08/21/1984	Bardwell	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>m</i>	B10	GB 1 469 661	04/06/1977	Swobda, et al.		
	B11	GB 1 277 461	06/03/1972			
	B12	GB 1 448 304	09/02/1976			
<i>n</i>	B13	GB 1 582 392	01/07/1981			

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4

of 27

Application Number 10/767,322

Filing Date January 29, 2004

First Named Inventor Giroux et al.

Group Art Unit 3672

Examiner Name Unknown

Attorney Docket Number WEAT/0343

Submission Date November 2, 2004

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A58	US-4446745	05/08/1994	Stone, et al.	
	A59	US-4396076	08/02/1983	Inoue	
	A60	US-4396077	09/12/1981	Radtke	
	A61	US-4274778	06/23/1981	Putnam, et al.	
	A62	US-4221269	09/09/1980	Hudson	
	A63	US-4189185	02/19/1980	Kammerer, Jr., et al.	
	A64	US-4186628	02/05/1990	Bonnice	
	A65	US-4100981	07/18/1978	Chaffin	
	A66	US-4083405	04/11/1978	Shirley	
	A67	US-3934660	01/27/1976	Nelson	
	A68	US-3901331	08/26/1975	Djurovic	
	A69	US-3785193	01/15/1974	Kinley et al.	
	A70	US-3700048	10/24/1972	Desmoulins	
	A71	US-3691624	09/19/1972	Kinley	
	A72	US-3669190	06/13/1972	Sizer et al.	
	A73	US-3624760	11/30/1971	Bodine	
	A74	US-3575245	04/20/1971	Cordary, et al.	
	A75	US-3489220	01/13/1970	Kinley	
	A76	US3387893	06/11/1968	Hoever	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B14	GB 2 053 088	02/04/1981	Gebhart		
	B15	GB 2 201 912	09/14/1988	Dinsdale		
	B16	GB 2 313 860	02/10/1997	Lee		
	B17	GB 2 320 270	06/17/1998	Armell, et al.		
	B18	GB 2 333 542	07/28/1999	Kirk		

Examiner

Date Considered 10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 5

of

27

Application Number

10/767,322

Filing Date

January 29, 2004

First Named Inventor

Giroux et al.

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0343

Submission Date

November 2, 2004

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A77	US-3353599	11/21/1967	Swift	
	A78	US-3191680	06/29/1965	Vincent	
	A79	US-3191677	06/29/1965	Kinley	
	A80	US-3169592	02/26/1965	Kammerer	
	A81	US-3102599	09/03/1963	Hillburn	
	A82	US-3087546	04/30/1963	Wooley	
	A83	US-2805043	09/03/1957	Williams	
	A84	US-2765146	10/02/1956	Williams	
	A85	US-2764329	09/25/1956	Hampton	
	A86	US-2743087	04/24/1956	Layne, et al.	
	A87	US-2663073	12/22/1953	Bieber et al.	
	A88	US-2641444	06/09/1953	Moon	
	A89	US-2627891	02/10/1953	Clark	
	A90	US-2499630	03/07/1950	Clark	
	A91	US-2324679	07/20/1943	Cox	
	A92	US2295803	09/15/1940	O'Leary	
	A93	US-2216895	10/08/1940	Stokes	
	A94	US-2060352	11/11/1936	Stokes	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B19	GB 2 365 463	02/20/2002	Giancarlo		
	B20	GB 2 382 361	05/28/2003	Hewson, et al.		
	B21	GB 2 216 926	10/18/1989	Haloid		
	B22	GB 2 348 223	09/27/2000	Cook, et al.		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.





Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Giroux et al.
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Submission Date	November 2, 2004

Sheet 6 of 27

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
~	A95	US-2049450	08/04/1936	Johnson	
	A96	US-2017451	10/15/1935	Wickersham	
	A97	US-1981525	11/20/1934	Price	
	A98	US-1880218	10/04/1932	Simmons	
	A99	US-1342424	06/08/1920	Cotten	
	A100	US-1301285	04/22/1919	Leonard	
	A101	US1185582	05/30/1916	Bignell	
	A102	US-2004/0069501	04/15/2004	Haugen et al.	
	A103	US-2003/0217865	11/27/2003	Simpson, et al.	
	A104	US-2003/0146023	08/07/2003	Pia	
	A105	US-2003/0141111	07/31/2004	Pia	
	A106	US-2003/0111267	06/19/2003	Pia	
	A107	US-2003/0056991	03/27/2003	Hahn, et al.	
	A108	US-2002/0079102	06/27/2002	Dewey, et al.	
	A109	US-2002/0040787	4/11/2002	Cook, et al.	
	A110	US-2001/0002626	6/7/2001	Frank, et al.	
	A111	US-5833002	11/10/1998	Holcombe	
	A112	US-5615747	04/01/1997	Vail, III	
	A113	US-5375668	12/27/1994	Hallundbaek	
	A114	US-5197553	03/30/1993	Letumo	
	A115	US-4962822	01/16/1990	Pascale	
	A116	US-4960173	10/02/1990	Cognevich, et al.	
	A117	US-4651837	03/24/1987	Mayfield	
	A118	US-3603411	09/07/1971	Link	
~	A119	US-3552508	01/05/1971	Brown	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
~	B23	GB 540 027	10/02/1941			
	B24	GB 7 928 86	04/12/1958			
	B25	GB 8 388 33	06/22/1960			
~	B26	GB 9 977 21	07/07/1965	Garnier, et al.		

Examiner

Date Considered

10/12/05



Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 7

of 27

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Giroux et al.
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Submission Date	November 2, 2004

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)				
<i>W</i>	B27	USSR 112631	01/10/1956	Barshai, et al.		
	B28	USSR 1304470	08/31/1984	Gelfat, et al.		
	B29	USSR 1808972	05/22/1991	Voroshbitov, et al.		
	B30	USSR 247162	05/10/1967	Barshai, et al.		
	B31	USSR 395557	12/30/1971	Barshai, et al.		
	B32	USSR 415346	03/03/1972	Barshai, et al.		
	B33	USSR 461218	04/23/1973	Barshai, et al.		
	B34	USSR 481689	06/09/1972	Barshai, et al.		
	B35	USSR 501139	12/14/1973	Barshai, et al.		
	B36	USSR 581238	02/23/1976	Barshai, et al.		
	B37	USSR 583278	08/30/1974	Barshai, et al.		
	B38	USSR 585266	07/26/1974	Barshai, et al.		
	B39	USSR 601390	01/12/1976	Barshai, et al.		
	B40	USSR 655843	03/22/1977	Barshai, et al.		
	B41	USSR 659260	04/02/1967	Barshai		
	B42	USSR 781312	03/07/1978	Barshai, et al.		
	B43	USSR 899820	06/29/1979	Alikin, et al.		
	B44	USSR 955765	02/09/1981	Gelfat, et al.		
	B45	WO 00/37766	06/29/2000	Simpson, et al.		
	B46	WO 01/83932	11/08/2001	Tulloch		
	B47	WO 90/06418	06/14/1990	Schulze-Bechinghausen		
	B48	WO 92/01139	01/23/1992	Nobilequ		
	B49	WO 92/18743	10/29/1992	Pietras		
	B50	WO 92/20899	11/26/1992	Ellis		
	B51	WO 93/24728	12/09/1993	Simpson		

Examiner

*mta*

Date Considered

10/12/08

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 8

of 27

Application Number

10/767,322

Filing Date

January 29, 2004

First Named Inventor

Giroux et al.

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0343

Submission Date

November 2, 2004

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>2</sup> -Number <sup>2</sup> -Kind Code <sup>3</sup> (if known)				
	B52	WO 95/10686	04/20/1995	Lorenz, et al.		
	B53	WO 96/28635	09/19/1996	Strong, et al.		
	B54	WO 98/09053	03/05/1998	Murray, et al.		
	B55	WO 99/23354	05/14/1999	Metcalf		
	B56	WO 99/37881	07/29/1999	Kirk, et al.		
	B57	WO 99/50528	10/07/1999	Kuck, et al.		
	B58	WO 99/64713	12/16/1999	Wardley		
	B59	WO 99/11902	03/11/1999	Hollingsworth		
	B50	FR 2053088	07/20/1970	Gottwald		
	B72	WO 00/08293	02/17/2000	Van Drentham-Susman		
	B73	WO 91/16520	10/31/1991	Hallundbaek		
	B74					
	B75					
	B76					
	B77					
	B78					

Examiner

Date Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Giroux et al.
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Submission Date	November 2, 2004

Sheet 9 of 27

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C1	HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development, " Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orleans, LA Feb. 23-25, 2000 pp. 1-9.	
	C2	M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Drilling are Options" Drilling Contractor, January/February 2002, pp. 52.	
	C3	M. GELFGAT, "Retractable Bits Development and Application" Transactions of the ASME, Vol. 120, June (1998), pp. 124-130.	
	C4	"First Success with Casing-Drilling" Word Oil, February (1999), pp. 25.	
	C5	DEAN E. GADDY, Editor, "Russia Shares Technical Know-How with U.S." Oil & Gas Journal, March (1999), pp. 51-52 and 54-56.	
	C6	United States Patent Application 10/794,800, filed March 5, 2004 (WEAT/0360)	
	C7	United States Patent Application 10/832,804, filed April 27, 2004 (WEAT/0383.P1)	
	C8	United States Patent Application 10/795,214, filed March 5, 2004 (WEAT/0373)	
	C9	United States Patent Application 10/794,795, filed March 5, 2004 (WEAT/0357)	
	C10	United States Patent Application 10/775,048, filed February 9, 2004 (WEAT/0359)	
	C11	United States Patent Application 10/772,217, filed February 2, 2004 (WEAT/0344)	
	C12	United States Patent Application 10/788,976, filed February 27, 2004 (WEAT/0372)	

Examiner

Date Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.


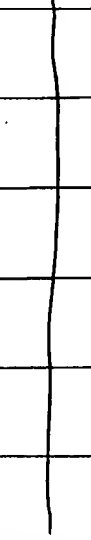

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



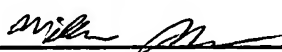
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 10	of 27	Submission Date	November 2, 2004

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C13	United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371)	
	C14	United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343)	
	C15	United States Patent Application 10/795,129, filed March 5, 2004 (WEAT/0366)	
	C16	United States Patent Application 10/794,790, filed March 5, 2004 (WEAT/0329)	
	C17	United States Patent Application 10/162,302, filed June 4, 2004 (WEAT/0410)	
	C18	Rotary Steerable Technology – Technology Gains Momentum, Oil & Gas Journal, 12/28/1998	
	C19	Directional Drilling, M. Mims, World Oil, May 1999, pp. 40-43	
	C20	Multilateral Classification System w/Example Applications, Alan MacKenzie & Cliff Hogg, World Oil, Jan. 1999, pp. 55-61	
	C21		
	C22		
	C23		
	C24		

Examiner



Date Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2



Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				Application Number		10/767,322	
				Filing Date		January 29, 2004	
				First Named Inventor		Giroux et al.	
				Group Art Unit		3672	
				Examiner Name		Unknown	
				Attorney Docket Number		WEAT/0343	
Sheet	11	of	27	Submission Date		November 2, 2004	

**U.S. Patent Documents**

*Examine r Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A120	6,591,471	07-15-2003	Hollingsworth et al.			
	A121	6,554,064	04-29-2003	Restarick et al.			
	A122	6,538,576	03-25-2003	Schultz et al.			
	A123	6,536,520	03-25-2003	Snider et al.			
	A124	6,527,064	03-04-2003	Hallundbaek			
	A125	6,527,047	03-04-2003	Pietras			
	A126	6,497,280	12-24-2002	Beck et al.			
	A127	6,484,818	11-26-2002	Alft et al.			
	A128	6,464,004	10-15-2002	Crawford et al.			
	A129	6,443,247	09-03-2002	Wardley			
	A130	6,443,241	09-03-2002	Juhasz et al.			
	A131	6,427,776	08-06-2002	Hoffman et al.			
	A132	6,419,033	07-16-2002	Hahn et al.			
	A133	6,419,014	07-16-2002	Meek et al.			
	A134	6,412,574	07-02-2002	Wardley et al.			
	A135	6,412,554	07-02-2002	Allen et al.			
	A136	6,408,943	06-25-2002	Schultz et al.			
	A137	6,405,798	06-18-2002	Barrett et al.			
	A138	6,397,946	06-04-2002	Vail, III			
	A139	6,378,630	04-30-2002	Ritorto et al.			
	A140	6,378,627	04-30-2002	Tubel et al.			
	A141	6,374,924	04-23-2002	Hanton et al.			
	A142	6,371,203	04-16-2002	Frank et al.			

Examiner Date Considered 10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 12	of 27	Submission Date	November 2, 2004

U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A143	6,359,569	03-19-2002	Beck et al.			
	A144	6,357,485	03-19-2002	Quigley et al.			
	A145	6,343,649	02-05-2002	Beck et al.			
	A146	6,325,148	12-04-2001	Trahan et al.			
	A147	6,315,051	11-13-2001	Ayling			
	A148	6,311,792	11-06-2001	Scott et al.			
	A149	6,296,066	10-02-2001	Terry et al.			
	A150	6,263,987	07-24-2001	Vail, III			
	A151	6,234,257	05-22-2001	Ciglenec et al.			
	A152	6,220,117	04-24-2001	Butcher			
	A153	6,206,112	03-27-2001	Dickinson, III et al.			
	A154	6,196,336	03-06-2001	Fincher et al.			
	A155	6,189,621	02-20-2001	Vail, III			
	A156	6,182,776	02-06-2001	Asberg			
	A157	6,172,010	01-09-2001	Argillier et al.			
	A158	6,170,573	01-09-2001	Brunet et al.			
	A159	6,158,531	12-12-2000	Vail, III			
Examiner					Date Considered 10/12/05		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							



Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 13	of 27	Submission Date	November 2, 2004

**U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A160	6,119,772	09-19-2000	Pruet			
	A161	6,065,550	05-23-2000	Gardes			
	A162	6,062,326	05-16-2000	Strong et al.			
	A163	6,061,000	05-09-2000	Edwards			
	A164	6,059,053	05-09-2000	McLeod			
	A165	6,059,051	05-09-2000	Jewkes et al.			
	A166	6,026,911	02-22-2000	Angle et al.			
	A167	6,000,472	12-14-1999	Albright et al.			
	A168	5,971,079	10-26-1999	Mullins			
	A169	5,957,225	09-28-1999	Sinor			
	A170	5,950,742	09-14-1999	Caraway			
	A171	5,947,213	09-07-1999	Angle et al.			
	A172	5,931,231	08-03-1999	Mock			
	A173	5,921,332	07-13-1999	Spedale, Jr.			
	A174	5,921,285	07-13-1999	Quigley et al.			
	A175	5,913,337	06-22-1999	Williams et al.			
	A176	5,908,049	06-01-1999	Williams et al.			
	A177	5,894,897	04-20-1999	Vail, III			
	A178	5,890,549	04-06-1999	Sprehe			
	A179	5,890,537	04-06-1999	Lavaure et al.			
	A180	5,860,474	01-19-1999	Stoltz et al.			
	A181	5,845,722	12-08-1998	Makohl et al.			

Examiner

Date Considered 10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.





Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/767,322
				Filing Date	January 29, 2004
				First Named Inventor	Giroux et al.
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0343
Sheet	14	of	27	Submission Date	November 2, 2004

**U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A182	5,842,530	12-01-1998	Smith et al.			
	A183	5,839,519	11-24-1998	Spedale, Jr.			
	A184	5,839,330	11-24-1998	Stokka			
	A185	5,829,520	11-03-1998	Johnson			
	A186	5,828,003	10-27-1998	Thomeer et al.			
	A187	5,785,134	07-28-1998	McLeod et al.			
	A188	5,746,276	05-05-1998	Stuart			
	A189	5,743,344	04-28-1998	McLeod et al.			
	A190	5,735,348	04-07-1998	Hawkins, III			
	A191	5,732,776	03-31-1998	Tubel et al.			
	A192	5,720,356	02-24-1998	Gardes			
	A193	5,711,382	01-27-1998	Hansen et al.			
	A194	5,667,026	09-16-1997	Lorenz et al.			
	A195	5,667,023	09-16-1997	Harrell et al.			
	A196	5,662,182	09-02-1997	McLeod et al.			
	A197	5,662,170	09-02-1997	Donovan et al.			
	A198	5,661,888	09-02-1997	Hanslik			
	A199	5,651,420	07-29-1997	Tibbitts et al.			
	A200	5,584,343	12-17-1996	Coone			
	A201	5,582,259	12-10-1996	Barr			
	A202	5,560,437	10-01-1996	Dickel et al.			

Examiner Date Considered 10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				Application Number	10/767,322
				Filing Date	January 29, 2004
				First Named Inventor	Giroux et al.
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0343
Sheet	15	of	27	Submission Date	November 2, 2004

**U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<i>a</i>	A203	5,551,521	09-03-1996	Vail, III			
	A204	5,547,029	08-20-1996	Rubbo et al.			
	A205	5,535,838	07-16-1996	Keshavan et al.			
	A206	5,535,824	07-16-1996	Hudson			
	A207	5,497,840	03-12-1996	Hudson			
	A208	5,472,057	12-05-1995	Winfree			
	A209	5,452,923	09-26-1995	Smith			
	A210	5,386,746	02-07-1995	Hauk			
	A211	5,379,835	01-10-1995	Streich			
	A212	5,368,113	11-29-1994	Schulze-Beckinghausen			
	A213	5,355,967	10-18-1994	Mueller et al.			
	A214	5,354,150	10-11-1994	Canales			
	A215	5,353,872	10-11-1994	Wittrisch			
	A216	5,343,950	09-06-1994	Hale et al.			
	A217	5,332,048	07-26-1994	Underwood et al.			
	A218	5,323,858	06-28-1994	Jones et al.			
	A219	5,320,178	06-14-1994	Cornette			
	A220	5,305,830	04-26-1994	Wittrisch			
	A221	5,297,833	03-29-1994	Willis et al.			
<i>N</i>	A222	5,294,228	03-15-1994	Willis et al.			

Examiner *Smith* Date Considered *10/12/05*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO

# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 16

of 27

Application Number

10/767,322

Filing Date

January 29, 2004

First Named Inventor

Giroux et al.

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0343

Submission Date

November 2, 2004

## **U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A223	5,291,956	03-08-1994	Mueller et al.			
	A224	5,285,204	02-08-1994	Sas-Jaworsky			
	A225	5,285,008	02-08-1994	Sas-Jaworsky et al.			
	A226	5,282,653	02-01-1994	LaFleur et al.			
	A227	5,271,472	12-21-1993	Leturno			
	A228	5,255,751	10-26-1993	Stogner			
	A229	5,255,741	10-26-1993	Alexander			
	A230	5,234,052	08-10-1993	Coone et al.			
	A231	5,197,553	03-30-1993	Leturno			
	A232	5,191,939	03-09-1993	Stokley			
	A233	5,186,265	02-16-1993	Henson et al.			
	A234	5,172,765	12-22-1992	Sas-Jaworsky			
	A235	5,168,942	12-08-1992	Wydrinski			
	A236	5,160,925	11-03-1992	Dailey et al.			
	A237	5,148,875	09-22-1992	Karlsson et al.			
	A238	5,111,893	05-12-1992	Kvello-Aune			
	A239	5,096,465	03-17-1992	Chen et al.			
	A240	5,082,069	01-21-1992	Seiler et al.			
	A241	5,074,366	12-24-1991	Karlsson et al.			
	A242	5,060,737	10-29-1991	Mohn			

Examiner

Date Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/767,322
				Filing Date	January 29, 2004
				First Named Inventor	Giroux et al.
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0343
Sheet	17	of	27	Submission Date	November 2, 2004

**U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A243	5,060,542	10-29-1991	Hauk			
	A244	5,049,020	09-17-1991	McArthur			
	A245	5,027,914	07-02-1991	Wilson			
	A246	5,022,472	06-11-1991	Bailey et al.			
	A247	4,997,042	03-05-1991	Jordan et al.			
	A248	4,962,822	10-16-1990	Pascale			
	A249	4,921,386	05-01-1990	McArthur			
	A250	4,880,058	11-14-1989	Lindsey et al.			
	A251	4,854,386	08-08-1989	Baker et al.			
	A252	4,843,945	07-04-1989	Dinsdale			
	A253	4,842,081	06-27-1989	Parant			
	A254	4,832,552	05-23-1989	Skelly			
	A255	4,813,495	03-21-1989	Leach			
	A256	4,765,416	08-23-1988	Bjerking et al.			
	A257	4,762,187	08-09-1988	Haney			
	A258	4,760,882	08-02-1988	Novak			
	A259	4,735,270	04-05-1988	Fenyvesi			
	A260	4,725,179	02-16-1988	Woolslayer et al.			
	A261	4,671,358	06-09-1987	Lindsey, Jr. et al.			
	A262	4,686,873	08-18-1987	Lang et al.			

Examiner Date Considered 10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/767,322
				Filing Date	January 29, 2004
				First Named Inventor	Giroux et al.
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0343
Sheet	18	of	27	Submission Date	November 2, 2004

**U.S. Patent Documents**

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A263	4,655,286	04-07-1987	Wood			
	A264	4,652,195	03-24-1987	McArthur			
	A265	4,651,837	03-24-1987	Mayfield			
	A266	4,630,691	12-23-1986	Hooper			
	A267	4,605,077	08-12-1986	Boyadjieff			
	A268	4,604,724	08-05-1986	Shaginian et al.			
	A269	4,589,495	05-20-1986	Langer et al.			
	A270	4,583,603	04-22-1986	Dorleans et al.			
	A271	4,580,631	04-08-1986	Baugh			
	A272	4,545,443	10-08-1985	Wiredal			
	A273	4,544,041	10-01-1985	Rinaldi			
	A274	4,474,243	10-02-1984	Gaines			
	A275	4,472,002	09-18-1984	Beney et al.			
	A276	4,470,470	09-11-1984	Takano			
	A277	4,463,814	08-07-1984	Horstmeyer et al.			
	A278	4,460,053	07-17-1984	Jurgens et al.			
	A279	4,440,220	04-03-1984	McArthur			
	A280	4,413,682	11-08-1983	Callihan et al.			
	A281	4,408,669	10-11-1983	Wiredal			
	A282	4,384,627	05-24-1983	Ramirez-Jauregui			
	A283	4,336,415	06-22-1982	Walling			
	A284	4,320,915	03-23-1982	Abbott et al.			
	A285	4,315,553	02-16-1982	Stallings			

Examiner Date Considered 10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 19	of 27	Submission Date	November 2, 2004

U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A286	4,287,949	09-08-1981	Lindsey, Jr.			
	A287	4,281,722	08-04-1981	Tucker et al.			
	A288	4,274,777	06-23-1981	Scaggs			
	A289	4,262,693	04-21-1981	Giebeler			
	A290	4,257,442	03-24-1981	Claycomb			
	A291	4,175,619	11-27-1979	Davis			
	A292	4,173,457	11-06-1979	Smith			
	A293	4,142,739	03-06-1979	Billingsley			
	A294	4,133,396	01-09-1979	Tschirky			
	A295	4,100,968	07-18-1978	Delano			
	A296	4,085,808	04-25-1978	Kling			
	A297	4,082,144	04-04-1978	Marquis			
	A298	4,077,525	03-07-1978	Callegari et al.			
	A299	4,064,939	12-27-1977	Marquis			
	A300	4,054,426	10-18-1977	White			
	A301	4,049,066	09-20-1977	Richey			
	A302	3,980,143	09-14-1976	Swartz et al.			
Examiner					Date Considered 10/12/05		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							



Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/767,322
				Filing Date	January 29, 2004
				First Named Inventor	Giroux et al.
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0343
Sheet	20	of	27	Submission Date	November 2, 2004

U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A303	3,964,556	06-22-1976	Gearhart et al.			
	A304	3,945,444	03-23-1976	Knudson			
	A305	3,885,679	05-27-1975	Swoboda, Jr. et al.			
	A306	3,881,375	05-06-1975	Kelly			
	A307	3,870,114	03-11-1975	Pulk, deceased et al.			
	A308	3,840,128	10-08-1974	Swoboda, Jr. et al.			
	A309	3,838,613	10-01-1974	Wilms			
	A310	3,808,916	05-07-1974	Porter et al.			
	A311	3,747,675***	07-24-1973	Brown			
	A312	3,729,057	04-24-1973	Werner			
	A313	3,692,126	09-19-1972	Rushing et al.			
	A314	3,656,564	04-18-1972	Brown			
	A315	3,603,413	09-07-1971	Grill, et al.			
	A316	3,603,412	09-07-1971	Kammerer, Jr. et al.			
	A317	3,603,411	09-07-1971	Link			
	A318	3,559,739	02-02-1971	Hutchison			
	A319	3,570,598	03-16-1971	Johnson			
	A320	3,552,510	01-05-1971	Brown			
	A321	3,552,509	01-05-1971	Brown			
	A322	3,552,508	01-05-1971	Brown			
	A323	3,550,684	12-19-1970	Cubberly, Jr.			
	A324	3,518,903	07-07-1970	Ham, et al.			
	A325	3,392,609	07-16-1968	Bartos			
	A326	3,380,528	04-30-1968	Timmons			
Examiner					Date Considered 10/12/05		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP.609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 21	of 27	Submission Date	November 2, 2004

U.S. Patent Documents							
*Examiner Initial	Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A327	3,159,219	12-01-1964	Scott			
	A328	3,123,160	03-03-1964	Kammerer			
	A329	3,122,811	03-03-1964	Gilreath			
	A330	2,743,495	05-01-1956	Eklund			
	A331	2,738,011	03-13-1956	Mabry			
	A332	2,692,059	10-19-1954	Bolling, Jr.			
	A333	2,668,689	02-09-1954	Cormany			
	A334	2,650,314	08-25-1953	Hennigh, et al.			
	A335	2,621,742	12-16-1952	Brown			
	A336	2,610,690	09-16-1952	Beatty			
	A337	2,522,444	09-12-1950	Grable			
	A338	2,214,429	09-10-1940	Miller			
	A339	1,917,135	07-04-1933	Littell			
	A340	1,842,638	01-26-1932	Wigle			
	A341	2003/0070841		Merecka et al.		11/19/2002	
	A342	2003/0056991		Hahn et al.		07/12/2002	
	A343	2003/0034177		Chitwood et al.		08/15/2002	
	A344	2002/0189863		Wardley		12/21/2000	
	A345	2002/0189806		Davidson et al.		06/13/2002	
	A346	2002/0162690		Hanton et al.		11/27/2001	
A347	2002/0157829		Davis et al.		04/26/2001		
A348	2002/0134555		Allen et al.		12/07/2001		
A349	2002/0074132		Juhasz et al.		03/03/2000		
A350	2002/0074127		Birckhead et al.		02/22/2001		
A351	2002/0066556		Goode et al.		08/02/2001		
Examiner				Date Considered 10/12/05			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							





Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 22	of 27	Submission Date	November 2, 2004

U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A352	2001/0047883		Hanton et al.			02/18/2000
	A353	2001/0042625		Appleton			07/30/2001
	A354	2001/0040054		Haugen et al.			05/04/2001
	A355	2001/0013412		Tubel			01/18/2001
	A356	2001/0000101		Lovato et al.			12/07/2000
	A357	10/618,093					
	A358	2004/0003490		Shahin et al.			03/05/2003
	A359	2003/0221519		Haugen et al.			03/05/2003
	A360	2004/0124011		Gledhill et al.			12/31/2002
	A361	2004/0124010		Galloway et al.			12/30/2002
	A362	2004/0118614		Galloway et al.			12/20/2002
	A363	2004/0112603		Galloway et al.			12/13/2002
	A364	2004/0069501		Haugen et al.			10/11/2002
	A365	10/189,570					
	A366	5,613,567	03-25-1997	Hudson			
		A367	5,343,951	09-06-1994	Cowan et al.		
Examiner					Date Considered 10/12/05		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							



Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 23	of 27	Submission Date	November 2, 2004

## Foreign Patent Documents

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
	B74	WO 02/086287	10-31-2002	WIPO	E21B	47/01	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B75	WO 01/94739	12-13-2001	WIPO	E21B	7/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B76	WO 01/94738	12-13-2001	WIPO	E21B	7/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B77	WO 01/81708	11-01-2001	WIPO	E21B	10/32	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B78	WO 01/79650	10-25-2001	WIPO	E21B	10/60	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B79	WO 01/46550	06-28-2001	WIPO	E21B	7/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B80	WO 01/12946	02-22-2001	WIPO	E21B	19/00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B81	WO 00/50730	08-31-2000	WIPO	E21B	10/66	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B82	WO 00/28188	05-18-2000	WIPO	E21B	7/06	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B83	WO 00/37771	06-29-2000	WIPO	E21B	43/10	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B84	WO 00/11311	03-02-2000	WIPO	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B85	WO 00/11310	03-02-2000	WIPO	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B86	WO 00/11309	03-02-2000	WIPO	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B87	WO 00/05483	02-03-2000	WIPO	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B88	WO 98/55730	12-10-1998	WIPO	E21B	23/00	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B89	WO 97/08418	03-06-1997	WIPO	E21B	4/18	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B90	GB 2 357 101	06-13-2001	UK	E21B	7/06	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B91	EP 1 050 661	11-08-2000	EP	E21B	7/18	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B92	EP 0 571 045	08-19-1998	EP	E21B	7/06	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B93	GB 2 216 926	10-18-1989	UK	E21B	7/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B94	SU 1618870	01-07-1991	Russia	E21B	33/14	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B95	WO 96/28635	09-19-1996	WIPO	E21B	17/14	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Examiner

Date Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322		
		Filing Date	January 29, 2004		
		First Named Inventor	Giroux et al.		
		Group Art Unit	3672		
		Examiner Name	Unknown		
		Attorney Docket Number	WEAT/0343		
Sheet	24	of	27	Submission Date	November 2, 2004

**OTHER ART**

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C21	Tarr, et al., "Casing-while-Drilling: The Next Step Change In Well Construction," World Oil, October 1999, pp. 34-40
	C22	De Leon Mojarro, "Breaking A Paradigm: Drilling With Tubing Gas Wells," SPE Paper 40051, SPE Annual Technical Conference And Exhibition, March 3-5, 1998, pp. 465-472
	C23	De Leon Mojarro, "Drilling/Completing With Tubing Cuts Well Costs By 30%," World Oil, July 1998, pp. 145-150
	C24	Littleton, "Refined Slimhole Drilling Technology Renews Operator Interest," Petroleum Engineer International, June 1992, pp. 19-26
	C25	Anon, "Slim Holes Fat Savings," Journal of Petroleum Technology, September 1992, pp. 816-819
	C26	Anon, "Slim Holes, Slimmer Prospect," Journal of Petroleum Technology, November 1995, pp. 949-952
	C27	Vogt, et al., "Drilling Liner Technology For Depleted Reservoir," SPE Paper 36827, SPE Annual Technical Conference And Exhibition, October 22-24, pp. 127-132
	C28	Mojarro, et al., "Drilling/Completing With Tubing Cuts Well Costs By 30%," World Oil, July 1998, pp. 145-150
	C29	Sinor, et al., Rotary Liner Drilling For Depleted Reservoirs," IADC/SPE Paper 39399, IADC/SPE Drilling Conference, March 3-6, 1998, pp 1-13
	C30	Editor, "Innovation Starts At The Top At Tesco," The American Oil & Gas Reporter, April, 1998, p. 65
	C31	Tessari, et al., "Casing Drilling - A Revolutionary Approach To Reducing Well Costs," SPE/IADC Paper 52789, SPE/IADC Drilling Conference, March 9-11, 1999, pp. 221-229
	C32	Silverman, "Novel Drilling Method - Casing Drilling Process Eliminates Tripping String," Petroleum Engineer International, March 1999, p. 15
	C33	Silverman, "Drilling Technology - Retractable Bit Eliminates Drill String Trips," Petroleum Engineer International, April 1999, p. 15
Examiner		Date Considered 10/12/05
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>		



Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				Application Number	10/767,322
				Filing Date	January 29, 2004
				First Named Inventor	Giroux et al.
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0343
Sheet	25	of	27	Submission Date	November 2, 2004

**OTHER ART**

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C34	Laurent, et al., "A New Generation Drilling Rig: Hydraulically Powered And Computer Controlled," CADE/CAODC Paper 99-120, CADE/CAODC Spring Drilling Conference, April 7 & 8, 1999, 14 pages
	C35	Madell, et al., "Casing Drilling An Innovative Approach To Reducing Drilling Costs," CADE/CAODC Paper 99-121, CADE/CAODC Spring Drilling Conference, April 7 & 8, 1999, pp. 1-12
	C36	Tessari, et al., "Focus: Drilling With Casing Promises Major Benefits," Oil & Gas Journal, May 17, 1999, pp. 58-62
	C37	Laurent, et al., "Hydraulic Rig Supports Casing Drilling," World Oil, September 1999, pp. 61-68
	C38	Perdue, et al., "Casing Technology Improves," Hart's E & P, November 1999, pp. 135-136
	C39	Warren, et al., "Casing Drilling Application Design Considerations," IADC/SPE Paper 59179, IADC/SPE Drilling Conference, February 23-25, 2000 pp 1-11
	C40	Warren, et al., "Drilling Technology: Part I - Casing Drilling With Directional Steering In The U.S. Gulf Of Mexico," Offshore, January 2001, pp. 50-52
	C41	Warren, et al., "Drilling Technology: Part II - Casing Drilling With Directional Steering In The Gulf Of Mexico," Offshore, February 2001, pp. 40-42
	C42	Shepard, et al., "Casing Drilling: An Emerging Technology," IADC/SPE Paper 67731, SPE/IADC Drilling Conference, February 27-March 1, 2001, pp. 1-13
	C43	Editor, "Tesco Finishes Field Trial Program," Drilling Contractor, March/April 2001, p. 53
	C44	Warren, et al., "Casing Drilling Technology Moves To More Challenging Application," AADE Paper 01-NC-HO-32, AADE National Drilling Conference, March 27-29, 2001, pp. 1-10
	C45	Shephard, et al., "Casing Drilling: An Emerging Technology," SPE Drilling & Completion, March 2002, pp. 4-14
	C46	Shephard, et al., "Casing Drilling Successfully Applied In Southern Wyoming," World Oil, June 2002, pp. 33-41
	C47	Forest, et al., "Subsea Equipment For Deep Water Drilling Using Dual Gradient Mud System," SPE/IADC Drilling Conference, Amsterdam, The Netherlands, February 27, 2001-March 01, 2001, 8 pages
	C48	"World's First Drilling With Casing Operation From A Floating Drilling Unit, September 2003, 1 page
	C49	Filippov, et al., "Expandable Tubular Solutions," SPE paper 56500, SPE Annual Technical Conference And Exhibition, October 3-6, 1999, pp. 1-16

Examiner

Date Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Giroux et al.
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Sheet 26	of 27	Submission Date	November 2, 2004

**OTHER ART**

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
<i>n</i>	C50	Coronado, et al., "Development Of A One-Trip ECP Cement Inflation And Stage Cementing System For Open Hole Completions," IADC/SPE Paper 39345, IADC/SPE Drilling Conference, march 3-6, 1998, pp. 473-481
	C51	Coronado, et al., "A One-Trip External-Casing-Packer Cement-Inflation And Stage-Cementing System," Journal Of Petroleum Technology, August 1998, pp. 76-77
	C52	Quigley, "Coiled Tubing And Its Applications," SPE Short Course, Houston, Texas, October 3, 1999, 9 pages
	C53	Bayfild, et al., "Burst And Collapse Of A Sealed Multilateral Junction: Numerical Simulations," SPE/IADC Paper 52873, SPE/IADC Drilling Conference, March 9-11, 1999, 8 pages
	C54	Marker, et al. "Anaconda: Joint Development Project Leads To Digitally Controlled Composite Coiled Tubing Drilling System," SPE paper 60750, SPE/ICOTA Coiled Tubing Roundtable, April 5-6, 2000, pp 1-9
	C55	Cales, et al., "Subsidence Remediation – Extending Well Life Through The Use Of Solid Expandable Casing Systems, AADE Paper 01-NC-HO-24, American Association Of Drilling Engineers, March 2001 Conference, pp. 1-16
	C56	Coats, et al., "The Hybrid Drilling Unite: An Overview Of an Integrated Composite Coiled Tubing And Hydraulic Workover Drilling System," SPE Paper 74349, SPE International Petroleum Conference And Exhibition, February 10-12, 2002, pp. 1-7
	C57	Sander, et al., "Project Management And Technology Provide Enhanced Performance For Shallow Horizontal Wells," IADC/SPE Paper 74466, IADC/SPE Drilling Conference, February 26-28, 2002, pp. 1-9
	C58	Coats, et al., "The Hybrid Drilling System: Incorporating Composite Coiled Tubing And Hydraulic Workover Technologies Into One Integrated Drilling System, " IADC/SPE Paper 74538, IADC/SPE Drilling Conference, February 26-28, 2002, pp 1-7
<i>n</i>	C59	Galloway, "Rotary Drilling With Casing – A Field Proven Method Of Reducing Wellbore Construction Cost," Paper WOCD-0306092, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-7

Examiner <i>William Allen</i>	Date Considered <i>10/12/05</i>
-------------------------------	---------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/767,322		
		Filing Date	January 29, 2004		
		First Named Inventor	Giroux et al.		
		Group Art Unit	3672		
		Examiner Name	Unknown		
		Attorney Docket Number	WEAT/0343		
Sheet	27	of	27	Submission Date	November 2, 2004

**OTHER ART**

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C60	Fontenot, et al., "New Rig Design Enhances Casing Drilling Operations In Lobo Trend," paper WOCD-0306-04, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-13
	C61	McKay, et al., "New Developments In The Technology Of Drilling With Casing: Utilizing A Displaceable DrillShoe Tool," Paper WOCD-0306-05, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-11
	C62	Suttriono - Santos, et al., "Drilling With Casing Advances To Floating Drilling Unit With Surface BOP Employed," Paper WOCD-0307-01, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-7
	C63	Vincent, et al., "Liner And Casing Drilling - Case Histories And Technology," Paper WOCD-0307-02, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-20
	C64	Maute, "Electrical Logging: State-of-the Art," The Log Analyst, May-June 1992, pp. 206-27
	C65	Tessari, et al., "Retrievable Tools Provide Flexibility for Casing Drilling," Paper No. WOCD-0306-01, World Oil Casing Drilling Technical Conference, 2003, pp. 1-11
	C66	Evans, et al., "Development And Testing Of An Economical Casing Connection For Use In Drilling Operations," paper WOCD-0306-03, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-10

Examiner	Date Considered
----------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

Please type a plus sign (+) inside this box →

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 1 of 12

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-2,167,338	07-25-1939	Murcell	
	A2	US-2,228,503	01-14-1941	Boyd, et al.	
	A3	US-2,370,832	03-06-1945	Baker	
	A4	US-2,379,800	07-03-1945	Hare	
	A5	US-2,414,719	01-21-1947	Cloud	
	A6	US-2,720,267	10-11-1955	Brown	
	A7	US-2,741,907	06-06-1997	Genender, et al.	
	A8	US-3,006,415	10-31-1961	Burns, et al.	
	A9	US-3,041,901	07-03-1962	Knights	
	A10	US-3,054,100	09-11-1962	Jones	
	A11	US-3,090,031	05-14-1963	Lord	
	A12	US-3,111,179	11-19-1963	Albers, et al.	
	A13	US-3,117,636	01-24-1964	Wilcox, et al.	
	A14	US-3,124,023	3-10-1964	Marquis, et al.	
	A15	US-3,131,769	05-05-1964	Rochemont	
	A16	US-3,193,116	07-06-1965	Kenneday, et al.	
	A17	US-3,419,079	12-31-1968	Current	
	A18	US-3,548,936	12-22-1970	Kilgore, et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Number-Kind Code <sup>2</sup> (if known)				
	B1	CA 2 335 192	11-30-2001	Kozak		
	B2	DE 3 523 221	02-01-1987	Svetozar		
	B3	DE 3 918 132	12-14-1989	Eriksson		
	B4	EP 0 474 481	03-11-1992	Moody		
	B5	EP 0 087 373	08-31-1983	Plaquin		

Examiner *[Signature]*

Date Considered 10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(Use as many sheets as necessary)</p>		Application Number	10767,322
		Filing Date	January 29, 2004
		First Named Inventor	Richard L. Giroux et al
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
		Customer No.	36735
Sheet 2	of 12	Submission Date	

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A19	US-3,552,507	01-05-1971	Brown	
	A20	US-3,552,848	01-05-1971	Van Wagner	
	A21	US-3,566,505	03-02-1971	Martin	
	A22	US-3,602,302	08-31-1971	Kluth	
	A23	US-3,606,664	09-21-1971	Weiner	
	A24	US-3,635,105	01-18-1972	Dickmann, et al.	
	A25	US-3,680,412	08-01-1972	Mayer, et al.	
	A26	US-3,691,825	09-19-1972	Dyer	
	A27	US-3,696,332	10-03-1972	Dickson, Jr., et al.	
	A28	US-3,776,320	12-04-1973	Brown	
	A29	US-3,776,991	12-04-1973	Marcus	
	A30	US-3,848,684	11-19-1974	West	
	A31	US-3,857,450	12-31-1974	Guler	
	A32	US-3,913,687	10-21-1975	Gyongyosi, et al.	
	A33	US-4,054,332	10-18-1977	Bryan, Jr.	
	A34	US-4,095,865	06-20-1978	Denison, et al.	
	A35	US-4,127,927	12-05-1978	Hauk, et al.	
	A36	US-4,194,383	03-25-1980	Huzyak	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
	B6	EP 0 162 000	11-21-1985	Hamilton		
	B7	EP 0 171 144	02-12-1986	Stringfellow, et al.		
	B8	EP 0 285 386	10-05-1988	Haney		
	B9	EP 0 426 123	05-08-1991	Reis, et al.		
	B10	EP 0 525 247	02-03-1993	Willis		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.





Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 3

of 12

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A37	US-4,227,197	10-07-1980	Nimmo, et al.	
	A38	US-4,241,878	12-30-1980	Underwood	
	A39	US-4,277,197	07-07-1981	Bingham	
	A40	US-4,280,380	07-28-1981	Eshghy	
	A41	US-4,311,195	01-19-1982	Mullins, II	
	A42	US-4,392,534	07-12-1983	Milda	
	A43	US-4,407,378	10-04-1983	Thomas	
	A44	US-4,427,063	01-24-1984	Skinner	
	A45	US-4,437,363	03-20-1984	Haynes	
	A46	US-4,445,734	05-01-1984	Cunningham	
	A47	US-4,449,596	05-22-1984	Boyadjieff	
	A48	US-4,494,424	01-22-1985	Bates	
	A49	US-4,529,045	07-16-1985	Boyadjieff, et al.	
	A50	US-4,570,706	02-18-1986	Pugnet	
	A51	US-4,592,125	06-03-1986	Skene	
	A52	US-4,593,773	06-10-1986	Skeie	
	A53	US-4,605,268	08-12-1986	Meador	
	A54	US-4,625,796	12-02-1986	Boyadjieff	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Number-Kind Code <sup>2</sup> (if known)				
	B11	EP 0 589 823	03-03-1994	Busink, et al.		
	B12	EP 0 659 975	06-28-1995	Nagaoka, et al.		
	B13	EP 0 790 386	08-20-1997	Newton, et al.		
	B14	EP 0 881 354	04-24-1998	Vercaemen, et al.		
	B15	EP 0 962 384	12-08-1999	Poldervaart		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-766-9199) and select option 2.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 4

of 12

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
~	A55	US-4,646,827	03-03-1987	Cobb	
	A56	US-4,649,777	03-17-1987	Buck	
	A57	US-4,667,752	05-26-1987	Berry, et al.	
	A58	US-4,676,312	06-30-1987	Mosing, et al.	
	A59	US-4,683,962	08-04-1987	True	
	A60	US-4,691,587	09-08-1987	Farrand, et al.	
	A61	US-4,709,599	12-01-1987	Buck	
	A62	US-4,709,766	12-01-1987	Boyadjieff	
	A63	US-4,738,145	04-19-1988	Vincent, et al.	
	A64	US-4,742,876	05-10-1988	Barthelemy, et al.	
	A65	US-4,759,239	07-26-1988	Hamilton, et al.	
	A66	US-4,765,401	08-23-1988	Boyadjieff	
	A67	US-4,773,689	09-27-1988	Wolters	
	A68	US-4,775,009	10-04-1988	Wittrisch, et al.	
	A69	US-4,781,359	11-01-1988	Matus	
	A70	US-4,788,544	11-29-1988	Howard	
	A71	US-4,791,997	12-20-1988	Krasnov	
~	A72	US-4,793,422	12-27-1988	Krasnov	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
~	B16	EP 1 256 691	11-13-2002	Hawkins, et al.		
	B17	FR 2 841 293	12-26-2003	Bouygues Offshore		
	B18	GB 2 115 940	09-14-1983	Plaquin		
	B19	GB 2 224 481	09-05-1990	Voeten		
~	B20	GB 2 275 486	04-15-1993	Elane, et al.		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 5

of 12

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>mm</i>	A73	US-4,800,968	01-31-1989	Shaw, et al.	
	A74	US-4,806,928	02-21-1989	Veneruso	
	A75	US-4,813,493	03-21-1989	Shaw, et al.	
	A76	US-4,836,064	06-06-1989	Slator	
	A77	US-4,867,236	09-19-1989	Haney, et al.	
	A78	US-4,878,546	11-07-1989	Shaw, et al.	
	A79	US-4,901,069	02-13-1990	Veneruso	
	A80	US-4,936,382	06-26-1990	Thomas	
	A81	US-4,962,579	10-16-1990	Moyer, et al.	
	A82	US-5,009,265	04-23-1991	Bailey, et al.	
	A83	US-5,036,927	08-06-1991	Willis	
	A84	US-5,141,063	08-25-1992	Quesenbury	
	A85	US-5,176,518	01-05-1993	Hordijk, et al.	
	A86	US-5,191,932	03-09-1993	Seefried, et al.	
	A87	US-5,224,540	07-06-1993	Streich, et al.	
	A88	US-5,233,742	08-10-1993	Gray, et al.	
	A89	US-5,245,265	09-14-1993	Clay	
<i>mm</i>	A90	US-5,251,709	10-12-1993	Richardson	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
<i>mm</i>	B21	GB 2 294 715	08-05-1996	Tibbitts		
	B22	GB 2 349 401	11-01-2000	Roberts, et al.		
	B23	GB 2 352 747	07-02-2001	Davis, et al.		
	B24	GB 2 357 530	06-27-2001	Schulze-Beckinghausen		
<i>mm</i>	B25	GB 2 372 765	09-04-2002	Head		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-768-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735

Sheet 6

of 12

Submission Date

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
mm	A91	US-5,271,468	12-21-1993	Streich, et al.	
	A92	US-5,305,839	04-26-1994	Kalsi, et al.	
	A93	US-5,332,043	07-26-1994	Ferguson	
	A94	US-5,351,767	10-04-1994	Stogner, et al.	
	A95	US-5,388,651	02-14-1995	Berry	
	A96	US-5,394,823	03-07-1995	Lenze	
	A97	US-5,433,279	07-18-1995	Tassar, et al.	
	A98	US-5,494,122	02-27-1996	Larsen, et al.	
	A99	US-5,501,286	03-26-1996	Berry	
	A100	US-5,503,234	04-02-1996	Clanton	
	A111	US-5,540,279	07-30-1996	Branch, et al.	
	A112	US-5,542,472	08-06-1996	Pringle, et al.	
	A113	US-5,542,473	08-06-1996	Pringle, et al.	
	A114	US-5,553,672	09-10-1996	Smith, Jr., et al.	
	A115	US-5,577,566	11-26-1996	Albright, et al.	
	A116	US-5,645,131	07-08-1997	Trevisani	
	A117	US-5,706,894	01-13-1998	Hawkins, III	
mm	A118	US-5,791,410	08-11-1998	Castille, et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
mm	B26	GB 709 365	05-19-1954	Standard Oil Development		
	B27	GB 716 761	10-13-1954	Standard Oil Development		
	B28	GB 881 358	11-01-1961	Kammerer, et al.		
	B29	GB 2 350 137	11-22-2000	Baugh, et al.		
mm	B30	RU 2 079 633	05-20-1997	Abdrakhmanov		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-768-9199) and select option 2.



Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 7

of 12

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
m	A119	US-5,803,191	09-08-1998	Mackintosh	
	A120	US-5,813,456	09-29-1998	Milner, et al.	
	A121	US-5,836,395	11-17-1998	Budde	
	A122	US-5,839,515	11-24-1998	Yuan, et al.	
	A123	US-5,850,877	12-22-1998	Albright, et al.	
	A124	US-5,907,664	05-25-1999	Wang, et al.	
	A125	US-5,909,768	06-08-1999	Castille, et al.	
	A126	US-5,971,086	10-26-1999	Bee, et al.	
	A127	US-5,984,007	11-16-1999	Yuan, et al.	
	A128	US-5,988,273	11-23-1999	Monjure, et al.	
	A129	US-6,056,060	05-02-2000	Abrahamsen, et al.	
	A130	US-6,070,500	06-06-2000	Olask, et al.	
	A131	US-6,079,498	06-27-2000	Lima, et al.	
	A132	US-6,079,509	06-27-2000	Bee, et al.	
	A133	US-6,142,545	11-07-2000	Penman, et al.	
	A134	US-6,161,617	12-19-2000	Gjedebo	
m	A135	US-6,173,777	01-16-2001	Mullins	
	A136	US-6,199,641	03-13-2001	Downie, et al.	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
m	B31	WO 00/39429	07-06-2000	Pietras		
	B32	WO 00/39430	07-06-2000	Pietras		
	B33	WO 00/46484	08-10-2000	Van Buren, et al.		
	B34	WO 00/66879	11-09-2000	Hawkins, et al.		
m	B35	WO 02/081863	10-17-2002	Simpson, et al.		

Examiner

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-768-9199) and select option 2.

Please type a plus sign (+) inside this box →



PTO/SB/085 (08-03)

Approved for use through 07/31/2008, OM-B 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 8

of 12

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
mm	A137	US-6,223,823	05-01-2001	Head	
	A138	US-6,227,587	05-08-2001	Terral	
	A139	US-6,275,938	08-14-2001	Bond, et al.	
	A140	US-6,290,432	09-18-2001	Exley, et al.	
	A141	US-6,305,469	10-23-2001	Coenen, et al.	
	A142	US-6,309,002	10-30-2001	Bouligny	
	A143	US-6,349,764	02-26-2002	Adams, et al.	
	A144	US-6,360,633	03-26-2002	Pietras	
	A145	US-6,367,566	04-09-2002	Hill	
	A146	US-6,374,506	04-23-1993	Clay	
	A147	US-6,392,317	05-21-2002	Hall, et al.	
	A148	US-6,429,784	08-06-2002	Beique, et al.	
	A149	US-6,431,626	03-13-2002	Bouligny	
	A150	US-6,446,723	09-10-2002	Ramons, et al.	
	A151	US-6,622,796	09-23-2003	Pietras	
	A152	US-6,648,075	11-18-2003	Badrak, et al.	
	A153	US-6,688,394	02-10-2004	Ayling	
mm	A154	US-6,691,801	02-17-2004	Juhasz, et al.	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
mm	B36	WO 02/44601	06-06-2002	Appleford, et al.		
	B37	WO 03/087525	10-23-2003	Vincent, et al.		
	B38	WO 93/07358	04-15-1993	Elane, et al.		
	B39	WO 96/18799	06-20-1996	Stokka		
mm	B40	WO 98/05844	02-12-1998	Stokka		

Examiner

Anilla Allen

Date Considered

10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Richard L. Giroux et al
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
Customer No.	36735	Submission Date	
Sheet	9	of	12

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
mm	A155	US-6,698,595	03-02-2004	Norell, et al.	
	A156	US-6,725,938	04-27-2004	Pietras	
	A157	US-6,742,596	06-01-2004	Haugen	
	A158	US-6,742,606	06-01-2004	Metcalfe, et al.	
	A159	US-2002/0070842	04-17-2003	Bailey, et al.	
	A160	US-2002/0108748	08-15-2002	Keyes	
	A161	US-2003/0029641	02-13-2003	Meehan	
	A162	US-2003/0056947	03-27-2003	Cameron	
	A163	US-2003/0164250	09-04-2003	Wardley	
	A164	US-2003/0164251	09-04-2003	Tulloch	
	A165	US-2003/0173090	09-18-2003	Cook, et al.	
	A166	US-2003/0213598	11-20-2003	Hughes	
	A167	US-2004/0003944	01-08-2004	Vincent, et al.	
	A168	US-2004/000405	01-01-2004	Fournier, Jr., et al.	
	A169	US-2004/0011534	01-22-2004	Simonds, et al.	
	A170	US-2004/0060697	04-01-2004	Tilton, et al.	
	A171	US-2004/0069500	04-15-2004	Haugen	
mm	A172	US-2004/0079533	04-29-2004	Buytaert, et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
mm	B41	WO 98/11322	03-19-1998	Gjedebo		
	B42	WO 98/32948	07-30-1998	Pietras		
	B43	WO 99/35368	07-15-1999	Lohbeck, et al.		
	B44	WO 99/41485	08-19-1999	Pietras		
mm	B45	WO 99/58810	11-18-1999	Abrahamsen, et al.		

Examiner

*Miller* *Clark*

Date Considered

*10/12/05*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 10

of 12

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>rn</i>	A173	US-2004/0108142	06-10-2004	Vail, III	
	A174	US-2004/0112646	06-17-2004	Vail	
	A175	US-2004/0118613	06-24-2004	Vail	
	A176	US-2004/0123984	07-01-2004	Vail	
	A177	US-2004/0124015	07-01-2004	Vaile, et al.	
	A178	US-2004/0129456	07-08-2004	Vail	
	A179	US-2004/0140128	07-22-2004	Vail	
	A180	US-2004/0173358	09-09-2004	Haugen	
	A181	US-2004/0216925	11-04-2004	Metcalfe, et al.	
	A182	US-2004/0112646	06-17-2004	Vail	
<i>rn</i>	A183	US-Re 34,063	09-15-1992	Vincent, et al.	
	A184	US-			
	A185	US-			
	A186	US-			
	A187	US-			
	A188	US-			
	A189	US-			
	A190	US-			

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
<i>rn</i>	B46	FR 2741907	06-06-1997	Leighton		
	B47					
	B48					
	B49					
	B50					

Examiner

Date Considered 10/12/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.





Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/767,322
		Filing Date	January 29, 2004
		First Named Inventor	Richard L. Giroux et al
		Group Art Unit	3672
		Examiner Name	Unknown
		Attorney Docket Number	WEAT/0343
		Customer No.	36735
Sheet 11	of 12	Submission Date	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
m		DETLEF HAHN, FRIEDHELM MAKOHL, and LARRY WATKINS, Casing-While Drilling System Reduces Hole Collapse Risks, Offshore, Pages 54, 56, and 59, February 1998	
		YAKOV A. GELFGAT, MIKHAIL Y. GELFGAT and YURI S. LOPATIN, Retractable Drill Bit Technology – Drilling Without Pulling Out Drillpipe, Advanced Drilling Solutions Lessons From the FSU; June 2003; Vol. 2, pps. 351-464	
		TOMMY WARREN, SPE, BRUCE HOUTCHENS, SPE, GARRET MADELL, SPE, Directional Drilling With Casing, SPE/IADC 79914, Tesco Corporation, SPE/IADC Drilling Conference 2003	
		LaFleur Petroleum Services, Inc., "Autoseal Circulating Head," Engineering Manufacturing, 1992, 11 Pages	
		Valves Wellhead Equipment Safety Systems, W-K-M Division, ACF Industries, Catalog 80, 1980, 5 Pages	
		Canrig Top Drive Drilling Systems, Harts Petroleum Engineer International, February 1997, 2 Pages	
		The Original Portable Top Drive Drilling System, TESCO Drilling Technology, 1997	
		MIKE KILLALEA, Portable Top Drives: What's Driving The Market?, IADC, Drilling Contractor, September 1994, 4 Pages	
m		500 or 650 ECIS Top Drive, Advanced Permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages	

Examiner <i>anSelle</i> <i>Alme</i>	Date Considered <i>10/12/05</i>
-------------------------------------	---------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux et al
Group Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343
Customer No.	36735
Submission Date	

Sheet 12

of 12

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		500 or 650 HCIS Top Drive, Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages	
		Product Information (Sections 1-10) CANRIG Drilling Technology, Ltd., September 18, 1996	

Examiner

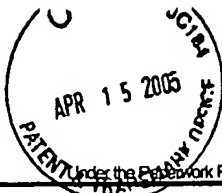
Date Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.





Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

### Complete if Known

Application Number	10/767,322
Filing Date	January 29, 2004
First Named Inventor	Richard L. Giroux
Art Unit	3672
Examiner Name	Unknown
Attorney Docket Number	WEAT/0343

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
[Signature]		US-6,857,487	02-22-2005	Galloway	
		US- 6,857,486	02-22-2005	Chitwood, et al.	
		US- 6,854,533	02-15-2005	Galloway	
		US- 6,848,517	02-01-2005	Wardley	
		US-6,840,322	01-11-2005	Haynes	
		US-6,752,211	06-22-2004	Dewey, et al.	
		US-6,745,834	06-08-2004	Davis, et al.	
		US-6,725,924	04-27-2004	Davidson, et al.	
		US-6,708,769	03-23-2004	Haugen, et al.	
		US-6,668,684	12-30-2003	Allen, et al.	
		US-6,666,274	12-23-2003	Hughes	
		US-6,655,460	12-02-2003	Bailey, et al.	
		US-6,651,737	11-25-2003	Boulligny	
		US-6,585,040	07-01-2003	Hanton, et al.	
		US-6,536,522	03-25-2003	Birkhead, et al.	
		US-6,464,011	10-15-2002	Tubel	
		US-6,458,471	10-01-2002	Lovato, et al.	
		US-6,433,241	09-03-2002	Juhasz, et al.	
		US-6,378,633	04-30-2002	Moore	
		US- 6,371,203	04-16-2002	Frank, et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
[Signature]		EP 0479583	04-08-1992	Gonzalez, et al.		
		EP 1148206	10-24-2001	Scott, et al.		
		GB 2381809	05-14-2003	Ohmer		
		GB 2347445	09-06-2000	Metcalf, et al.		
		WO 99/24689	05-20-1999	Collins		
		WO 99/04135	01-28-1999	Collins		
		WO 97/05360	02-13-1997	Collins		
		WO 03/074836	09-12-2003	Philip		

Examiner  
Signature

[Signature]

Date  
Considered

10/12/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO  <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>		<b>Complete if Known</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/767,322</td> </tr> <tr> <td>Filing Date</td> <td>January 29, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Richard L. Giroux</td> </tr> <tr> <td>Art Unit</td> <td>3672</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown</td> </tr> <tr> <td>Attorney Docket Number</td> <td>WEAT/0343</td> </tr> </table>		Application Number	10/767,322	Filing Date	January 29, 2004	First Named Inventor	Richard L. Giroux	Art Unit	3672	Examiner Name	Unknown	Attorney Docket Number	WEAT/0343
Application Number	10/767,322														
Filing Date	January 29, 2004														
First Named Inventor	Richard L. Giroux														
Art Unit	3672														
Examiner Name	Unknown														
Attorney Docket Number	WEAT/0343														
Sheet <u>2</u>	of	2													

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
[Handwritten line]		US-6,237,684	05-29-2001	Boutigny, Jr., et al.	
		US- 6,217,258	04-17-2001	Yamamoto, et al.	
		US- 6,012,529	01-11-2000	Mikolajczyk, et al.	
		US- 5,878,815	03-09-1999	Collins	
		US- 5,348,095	09-20-1994	Worrall, et al.	
		US- 5,069,297	12-03-1991	Krueger	
		US- 4,962,819	10-16-1990	Bailey, et al.	
		US- 3,760,894	09-25-1973	Pitlifer	
		US- 2,978,047	04-04-1961	DeVaun	
		US- 2005-0000691	01-06-2005	Giroux, et al.	
		US- 2004-0262013	12-30-2004	Tilton, et al.	
		US- 2004-0251055	12-16-2004	Shahin, et al.	
		US- 2004-0251050	12-16-2004	Shahin, et al.	
		US- 2004-0251025	12-16-2004	Giroux, et al.	
		US- 2004-0245020	12-09-2004	Giroux, et al.	
		US- 2004-0244992	12-09-2004	Carter, et al.	
		US- 2004-0226751	11-18-2004	McKay, et al.	
		US- 2004-0221997	11-11-2004	Giroux, et al.	
		US- 2004-0216924	11-04-2004	Pietras, et al.	
		US- 2004-0216892	11-04-2004	Giroux, et al.	
		US-2004-0016575	01-29-2004	Shahin, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

Examiner Signature	[Handwritten Signature]	Date Considered	10/12/05
--------------------	-------------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.